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DEVICE FOR MEASURING THE ABSOLUTE COEFFICIENTS OF MIRROR REFLECTION

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UNEDITED ROUGH DRAFT TRANSLATION

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DEVICE FOR MEASURING THE ABSOLUTE COEFFICIENTS OF MIRROR REFLECTION

The known devices for measuring the absolute coefficients of mirror reflection which contain optical attachments produce large errors not adjustable by computation, one of the causes of which is the turning of the light beam after reflection from the measuring mirror.

In the proposed device there is set up for the mirror to be measured the prism Dove-D, which turns the light beam. This enables one to increase the precision in determining the absolute coefficients of mirror reflection and eliminate the error introduced by the turning of the beam.

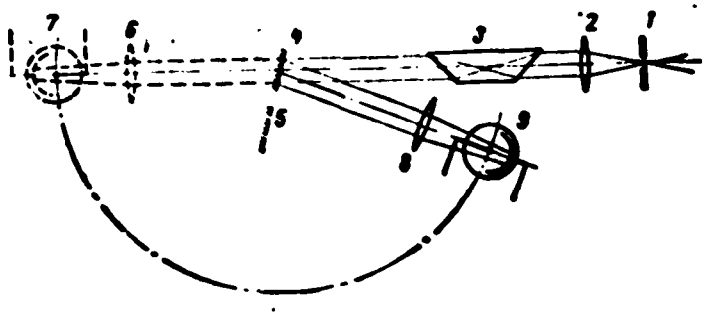
A schematic representation of the device described in given in the drawing.

The light beam focused by the objective 1 in passing the prism 2 reaches the prism 3 Dove-D, placed in the path of the light in front of the mirror 4 to be measured. With the aid of the prism 3 there is effected a turning both of the direct beam passing the measuring mirror 5, prism 6 and receiver 7, and of the reflected beam, which in passing the mirror to be measured 4 and the prism 8 goes on to the receiver 9. Meanwhile the position of the axis

of the prism 3 itself does not change and as a result of this the systematic error is eliminated, which was introduced by the lack of identicalness in the light spots in accordance with the distribution of the energy and lack of identicalness of the sentitivity of the receiver in its different points.

Subject of the Invention

A device for measuring the absolute coefficients of mirror reflection which is distinguished by the fact that, for the purpose of increasing the precision of the measurement there is set up before the mirror to be measured the prism Dove-D, which turns the light beam.



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